



## Autonomous Serial Manipulators for Industry

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### Abstract:

Problem Statement: It's been almost 60 years since the robotics started being present in industrial plants, but it is very challenging and time-wasting process to program the industrial robots using traditional programming as it requires robotics knowledge and programming skills.

In this study we discuss the autonomous industrial robots' architecture, and how the Artificial Intelligence can take place in automating the process of programming and operating industrial robots, we will discuss the perception, control, and system integration layers that is presented in a ping-pong playing robot (ABB IRB-120).

### Biography:

Salah Soliman is a Mechatronics and Automation Engineer, currently working as a Project Engineer in the field of education and program design, he is very interested in research in the field of Autonomous Systems.

### Publication of speakers:

- Salah Soliman et al ; Microdistribution of MC1R-targeted polyplexes in murine melanoma tumor tissue, 2013 Sep 27
- Salah Soliman et al ; Subcellular trafficking and transfection efficacy of polyethylenimine-polyethylene glycol polyplex nanoparticles with a ligand to melanocortin receptor-1, 2012 Sep 1



- Salah Soliman et al ; Current Approaches for Improving Intratumoral Accumulation and Distribution of Nanomedicines, 2015 Jun 8
- Salah Soliman et al ; Non-viral delivery of nucleic acids: Insight into mechanisms of overcoming intracellular barriers, 2018 April 13
- Salah Soliman et al; Role of endocytosis in nanoparticle penetration of 3D pancreatic cancer spheroids, 2019 Oct 10

International Webinar on Robotics , September 21, 2020; Paris, France

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